

## CR-2

Digital Retinal Camera

Setting the benchmark for the future.

Canon leads where others follow and we have continued to break new ground in eye care solutions. With our unique EOS camera technology, we consistently set new industrial standards in camera technology and sophisticated diagnostic high-end imaging. This enables us to continually push the boundaries of what is technically possible. We have built a success story on this formula; the CR-2 is the latest edition.



Canon EOS  
camera technology



Stereo Mode



Non-Mydriatic



Mydriatic

Canon has been defining the future with innovative solutions for nearly 70 years. In all that time we've constantly strived to improve medical diagnostics in healthcare. Perhaps that's what made us a leading global provider of eye care solutions.



### Canon Eco

Our actions are based on honesty and sustainability.



### Canon Quality

Safety and quality are an integral component of our actions.



### Canon Flexibility

Everything we do has to have a superior customer advantage.

Choose the eye care system of the future and let our local, authorized Canon dealer advise you:

**Canon**

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**Canon**

Discover new  
perspectives.



**CR-2 NON-MYDRIATIC  
DIGITAL RETINAL CAMERA**

*We Speak Image*



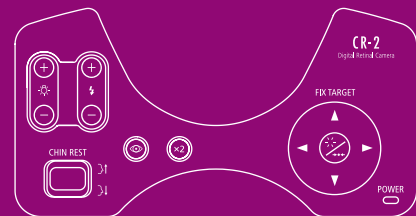
Less is more:  
Less space.  
More flexibility.

Camera Canon CR-2 (Digital) (P) 1-2341 150800

There are many non-mydriatic digital retinal cameras to choose from. The CR-2 digital retinal camera is made for those who strive for the best.

The new CR-2 non-mydriatic digital retinal camera marks the latest development in Canon's unparalleled success story. In 1976, Canon developed and manufactured the world's first non-mydriatic retinal camera – an innovation that set the standard for its time. From product generation to generation, Canon has continued to develop its cameras with the latest cutting-edge technology.

Following our corporate spirit with the desire to “improve what is already perfect”, Canon has produced a new generation of fundus cameras by creating the CR-2. Its revolutionary compact and ergonomic design has yielded a small and light instrument that is exceptionally intuitive, safe and comfortable to operate. The illuminated control panel ensures hassle-free operation in darkened rooms and, weighing only 15 kg, the CR-2 is the flexible solution designed to meet all of your mobile needs as well.



#### LED technology

- White LEDs to replace the strobe tube for the flash light
- Improved reliability and extended life-time
- LEDs for observation light
- Illuminated control panel
- Low power consumption

#### NEW DESIGN

**Compact and lightweight**  
305 W x 500 D x 473 H mm,  
15.0 kg including digital camera 0.8 kg



Canon's CR-2 non-mydriatic digital retinal camera provides a new level of diagnostic capabilities; delivering and storing high-resolution images, allowing you to focus on the results.



#### Use of EOS camera technology

Canon's own EOS camera technology, with its renowned image processing capabilities, is adapted exclusively to create a unique digital camera dedicated to retinal imaging.

- Infrared observation
- Colour fundus photography
- Digital red-free and cobalt fundus photography
- Dedicated firmware
- 15.1 MegaPixel

**Perfect image reproduction with 15.1 megapixels** This unique EOS digital camera technology has been specially adapted for photographing, documenting and depicting the ocular fundus. One sensor handles all functions: infrared observation; colour; digital red-free; and digital cobalt retinal photography.

**Small pupil mode** The CR-2 delivers high-resolution colour images in undilated pupils. It can even be used for pupil diameters as small as 3.3 mm.

**Compact design** Allows the operator to easily keep the patient's eye open with one hand. Enhanced overview provides an excellent view of the patient's eye.

**Latest LED technology** White LED replaces strobe tube used for the flash, contributing to improved reliability and eco friendly low power consumption.

**Digital filter technology for red-free and cobalt photography** Advanced digital filter technology combines the image processing technology with exceptional image quality.

**Low flash stereophotography** The latest LED technology, coupled with high sensitivity of the digital camera sensor, made possible by EOS camera technology to capture high-quality images with a lower flash intensity, making examinations more comfortable for patients. The ability to capture images of both eyes in rapid sequence allows users to be more efficient by permitting a high examination throughput rate.

**Automatic flash settings for perfect results** Incorrect flash settings are now a thing of the past. The correct intensity is now automatically set for every examination.

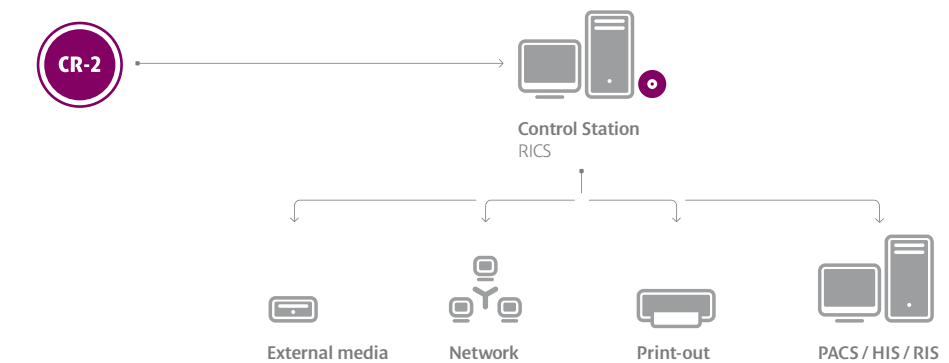
**Anterior photography mode** This new mode using the additional compensator lens now makes anterior segment fundus photography a quick and easy procedure.

**Multifunctional joystick for reliable user control** The easy-to-use control makes changeover between adjustment and examination mode simple. Focus can be easily adjusted using the intuitive control dial and minimum effort is required for up and downwards adjustment.

**Ergonomic design** The central control system with illuminated panel has been specifically designed for intuitive user operation in darkened room environments. The ergonomically-shaped surface assists with the alignment phases of examination. CR-2 provides exceptional portability.

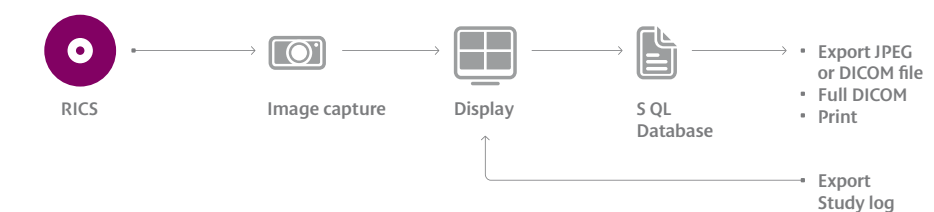
**Reduced maintenance** Thanks to its electronic control system, there is less need to access the working parts of CR-2, thus providing better protection against dust. All light sources are exclusively based on LED technology, which means greater durability and reliability.

## Configuration



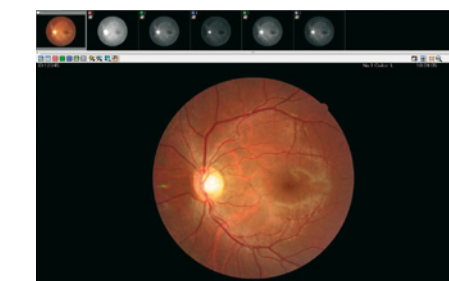
Canon is constantly thinking ahead when it comes to software design and understands the importance of networkability and ease of integration. This has resulted in the development of new solutions that are designed to be flexible to suit the needs of the user and their image management systems. The software incorporated into the CR-2 allows it to be used as a stand-alone system or it can be easily integrated into an existing clinic network or DICOM-compliant network system.

## RICS Retinal Imaging Control Software

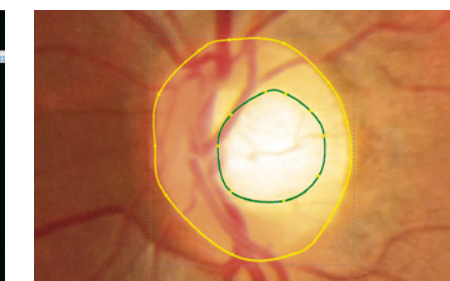


The latest version of Canon's extensive Retinal Image Control Software (RICS) supports Windows 7 and the export of data. Collecting, processing, archiving and referencing has been made much easier. RGB images or line drawings of current C/D ratio measurements can be stored easily as well as patient name, patient ID, accession number, right/left eye, photographic mode and date of examination.

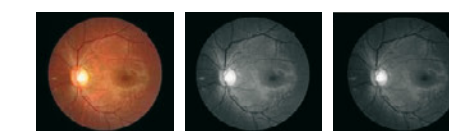
- <sup>1)</sup> High-quality retinal image capture, including comment input function.
- <sup>2)</sup> C/D ratio measurements by area or line.
- <sup>3)</sup> Digital filtered images for colour, red-free and cobalt photography and RGB images can now be stored.
- <sup>4)</sup> Diagnostic functions to compare studies from the same patient.



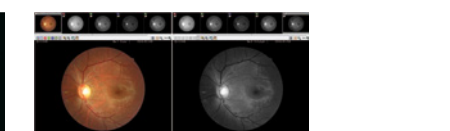
RICS main screen <sup>1)</sup>



C/D ratio measurement <sup>2)</sup>



Photography modes <sup>3)</sup>



Comparison studies <sup>4)</sup>

## Specifications

Dimensions	305 W x 500 D x 473 H mm	ISO (Standard)	1600
Weight	15 kg (including digital camera 0.8 kg)	ISO (Low flash mode)	3200 / 6400
Angle of view	45°	Flash intensity setting	Auto exposure
Minimum pupil size	Ø 4.0 mm (SP mode Ø 3.3 mm)	Focus adjustment	Split lines
Magnification	X2 (digital)	Working distance adjustment	Working dots
Photography modes	Colour / D-RF / D-Cobalt	Observation lamp	LED IRED
Anterior segment photography	Equipped	Photography lamp	LED White
Working distance	35 mm	Optional accessories	External Eye Fixation unit
Mounted camera	Dedicated digital camera unit using EOS camera technology		Chin rest paper: 500 sheets